

CLAIMS

We claim:

1. An alloy based on silver and containing at least three different chemical elements, the alloy comprising:
 - 5 0.1 to 3.0 wt% Re or Re and at least one element selected from the group consisting of Ir, Rh, and Pt;
 - 0.1 to 3.0 wt% of at least one element selected from the group consisting of Cu, Pt, Ti, Au, Al, Ta, and Si; and
 - the remainder silver.
- 10 2. An alloy based on silver and containing at least three different chemical elements, the alloy comprising:
 - 0.1 to 3.0 wt% Rh;
 - 0.1 to 3.0 wt% of at least one element selected from the group consisting of Cu, Ti, Al, Ta, and Si; and
 - 15 \geq about 94 to < about 99 wt% silver.
3. The alloy according to Claim 2, wherein the alloy comprises:
 - 0.1 to 3.0 wt% Rh;
 - 0.1 to 3.0 wt% Cu or Ti; and
 - \geq about 94 to < about 99 wt% silver.
- 20 4. The alloy according to Claim 3, wherein the alloy comprises:
 - about 1 wt% Rh;
 - about 1 wt% Cu or Ti; and
 - the remainder silver.
5. An alloy based on silver and containing at least three different chemical elements, the alloy comprising:
 - 25 0.1 to 3.0 wt% Pt;
 - 0.1 to 3.0 wt% of at least one element selected from the group consisting of Ti, Al, Ta, and Si; and
 - the remainder silver.
- 30 6. The alloy according to Claim 5, wherein the alloy comprises:

0.1 to 3.0 wt% Pt;
0.1 to 3.0 wt% Ti; and
the remainder silver.

7. The alloy according to Claim 6, wherein the alloy comprises:

5 about 1 wt% Pt;
 about 1 wt% Ti; and
 the remainder silver.

8. An alloy based on silver and containing at least three different chemical elements, the alloy comprising:

10 0.1 to 3.0 wt% Ir,
 0.1 to 3.0 wt% of at least one element selected from the group consisting of Ti, Al,
Ta, and Si; and
 the remainder silver.

9. A reflector layer based on silver and contain at least three different chemical elements, the reflector layer comprising:

15 0.1 to 3.0 wt% Rh;
 0.1 to 3.0 wt% Cu, Ti, Al, Ta, and Si; and
 the remainder silver.

10. The reflector layer according to Claim 9, wherein the reflector layer comprises:

20 0.1 to 3.0 wt% Rh;
 0.1 to 3.0 wt% Cu or Ti; and
 the remainder silver.

11. The reflector layer according to Claim 10, wherein the reflector layer comprises:

25 about 1 wt% Rh;
 about 1 wt% Cu or Ti; and
 the remainder silver.

12. The reflector layer according to Claim 9, wherein the reflector layer reflects visible daylight.

13. The reflector layer according to Claim 12, wherein the reflector layer is part of a reflective display.

30

14. The reflector layer according to Claim 9, wherein the reflector layer is part of an optical storage medium.

15. The alloy according to Claim 1, wherein the alloy forms a reflector layer.

16. The alloy according to Claim 15, wherein the reflector layer reflects visible daylight.

5 17. The alloy according to Claim 16, wherein the reflector layer is part of a reflective display.

18. The alloy according to Claim 15, wherein the reflector layer is part of an optical storage medium.

10 19. The alloy according to Claim 1, wherein the alloy comprises a sputtering material for cathode sputtering systems.